

IN THE SPECIFICATION

Please replace the paragraph at page 6, lines 30-34, with the following rewritten paragraph:

The theoretical transfer time holding section 2 holds a theoretical transfer time such as a peak rate or a sustainable rate by each of shaping subjects such as a ~~vertical~~ virtual path (VP) or a ~~vertical~~ virtual connection (VC), while connecting with the connections that the packets belongs.

Please cancel the original Abstract at page 18, lines 1-20 in its entirety and substitute therefor the following substitute Abstract on a separate sheet as follows: